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## PATENT ABSTRACTS OF JAPAN

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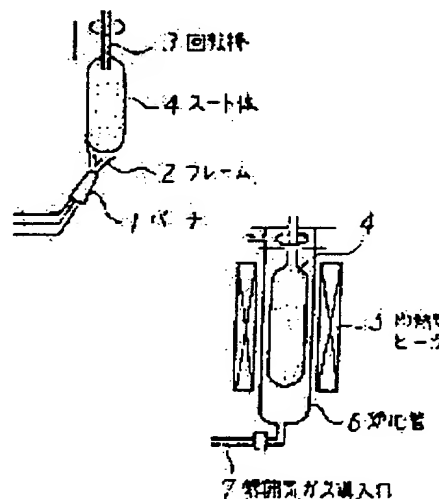
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### (54) PRODUCTION OF OPTICAL FIBER

#### (57)Abstract:

**PURPOSE:** To improve the quality of an optical fiber by heating a porous preform consisting essentially of quartz at a specified temp. in an atmosphere contg. sulfur compds.

**CONSTITUTION:** A seal gas such as H<sub>2</sub>, O<sub>2</sub>, and Ar and a raw gas such as SiCl<sub>4</sub> are supplied to a burner 1 to form fine glass particles (soot) in the flame 2, and the soot is deposited on the tip of a rod 3 which is rotated and pulled up to form a soot body 4 as the porous preform consisting essentially of quartz and having 0.2-0.4g/cm<sup>3</sup> bulk density. The soot body 4 is inserted into a soaking pit, etc., the entire soot is uniformly heated by a heater 5, and an atmospheric gas added with □ 1 kind of sulfur compd. among SCl<sub>2</sub>, S<sub>2</sub>Cl<sub>2</sub>, SOCl<sub>2</sub> etc., and an inert gas such as He, as required, or an atmospheric gas contg. sulfur compds. and CO is introduced from an atmospheric gas inlet 7 and heated to 800-1700° C. Consequently, a vitrified optical fiber preform contg. 10ppb-1000 ppm sulfur is obtained.



### LEGAL STATUS

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